Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.



Ag 854E

1961
fall
semester
evening
courses





GRADUATE SCHOOL • U. S. DEPARTMENT OF AGRICULTURE

Independence Avenue, between 12th and 14th Streets, Southwest, Washington 25, D. C.



register september 9-16

- Courses for High School and College Graduates
- Training for Federal Employees

REGISTER SEPTEMBER 9-16

General Information

Registration Week: September 9-16, in the Patio (first floor) of the Administration Building, U. S. Department of Agriculture, 14th Street and Independence Avenue, S.W., Washington 25, D. C.

Saturdays 9-4 p.m.

Monday-Friday 11-6:30 p.m.

Procedures: Registration must be completed in person, or by someone acting for the registrant. Registration may not be completed by mail. Transcripts of previous educational records are not required, but graduation from high school, or the equivalent, is the general prerequisite for all courses. The more advanced courses have specific prerequisites. These are listed in the course descriptions contained in the catalog. Copies of the catalog are available in the personnel and training offices of agencies of the Federal Government and in the Graduate School office. Copies can also be obtained at the time of registration.

Academic Credit: Any student wishing to receive credit elsewhere for Graduate School courses should consult in advance with the college or university in which he plans to take a degree.

Counseling: Members of the Graduate School staff are on hand for counseling, before and during the registration period.

Fees: The charge for tuition is in general \$12 for each credit hour, payable at the time of registration. Arrangements may be made to pay one half of the tuition at that time, in addition to a \$1.00 service charge. The second payment is due by October 13.

Late Registration: After September 16, a \$2.00 late registration fee is charged for each course. Late registrations will be accepted through September 29.

Course Transfers: Until September 29, students may transfer from one course to another without extra charge. After that date, there is a transfer fee of \$1.00, and transfers may be made only with the permission of the Registrar and the instructor concerned.

Federal Income Tax Deductions: According to the Internal Revenue Service regulation of April 5, 1958, expenses for education are deductible if undertaken for the purpose of "maintaining or improving skills by the taxpayer in his employment."

Class Schedule: Classes begin the week of Monday, September 18, and end the week of Monday, January 15.

Government Employees Training Act: If a student plans to ask his agency to pay all or part of his tuition under the training legislation (Public Law 85-507), he should make these arrangements in advance of registration week.

Veterans: A veteran who is applying for entrance to the Graduate School for the first time under Public Law 550 or 634 is advised to consult with the Registrar well in advance of registration week. This may assure that his certificate of eligibility from the Veterans Administration will be granted in time for the semester.

Textbooks: Textbooks can be purchased at the Graduate School Bookstore, Room 1023, South Building, at the following times: Registration Week, September 9-16

Saturdays, 9-4 p.m. Monday-Friday, 1-6:30 p.m. First Week of classes, September 18-22

Monday-Friday, 1-6:30 p.m.

September 25-October 13 Monday-Friday, 4:30-6:15 p.m. Beginning October 16 Monday-Friday, 4:30-5:30 p.m.

Withdrawals and Refunds: When a student withdraws from a course, a refund is granted in accordance with the following schedule:

Through September 29, tuition less \$5.00 for each course

October 2-13, 60 per cent of the total tuition October 16-27, 50 per cent of the total tuition

Notice of withdrawal must be made in writing to the Graduate School office. Forms are available for that purpose. Refunds are computed as of the date that notice of withdrawal is received in the Graduate School office. No refunds will be granted for any reason after October 27.

Credit-Audit Changes: The deadline is October 27.

Parking Space—Cafeteria: Space for parking is available for students and faculty after 5:45 p.m. in three parking courts on the east and south sides of the Administration Building. The entrance to one court is on 12th Street and to the other two on Independence Avenue. There is also space on the Mall, north of the Administration Building.

The cafeteria, in the fourth wing of the South Building, is open from 5:00 to 6:30 p.m. Students should request cafeteria passes when they register if they plan to use the cafeteria before 5:30 p.m.

Business Office Hours: The Graduate School office, Room 1031, South Agriculture Building, 14th Street and Independence Avenue, S.W., Washington 25, D. C. is open from 9:00 a.m. to 6:15 p.m., Monday through Friday. Telephone DUdley 8-6337 (Code 111, extension 6337).

SCHEDULE OF CLASSES

Registration September 9-16

No. Course title (Cr.) Instructor Day Time Fee Catalog page

BIOLOGICAL SCIENCES

Classes begin September 18

1-115A. Introduction to Modern Biology (First Half) (2) Margulies Tu 6:10-8 and field

1-126.

trips to be arranged \$24 p. 13

Medical Terms Simplified (2) Bollo Th 6:10-8 \$24 p. 13

Basic Principles of Laboratory Animal Care (First Half) (non-credit) Hill and Associates Tu 6:10-8:40 \$36 p. 13

Fundamentals of Medical Microbiology (3) Kimler F 7-9:30 \$36 p. 14 1-90A.

1-560.

1-570A. Design of Experiments in Biological Sciences (First Half) (2) Koch W 4:45-6:35 \$24 p. 14 (Meets at Plant Industry Station, Beltsville, Maryland)

New Biology (3) Loercher S 10 a.m.-1 p.m. \$36 (Academic credit for course to be telecast over WTOP-TV beginning September 25) 1-120.

LANGUAGES AND LITERATURE

English-Grammar and Writing

Effective Study and Learning Efficiency (non-credit) Weigand W 6:10-8 \$24 p. 18 2-25. Improving Reading Ability (non-credit) Billingsley Tu-Th 6:10-7:30 \$36 and \$15 2-95.

laboratory fee p. 18 Practical English Usage (2) \$24 p. 18 2-112.

Section I Reed Tu 6:10-8 Section II Pritzker F 6:10-8 Section III McMillan M 4:45-6:35 (Meets at Plant Industry Station, Beltsville, Maryland)

2-119. Vocabulary Building (2) Jones W 6:10-8 \$24 p. 18 2-222A. English Composition (First Half) (3) Reed W 6:10-8:40 \$36 p. 18 2-223. College Grammar (3) Harman Tu 6:10-8:40 \$36 p. 19

Cofficial Writing (2) Instructor to be announced Tu 6:10-8 \$24 p. 19 Fiction Writing (2) Arnold M 6:10-8 \$24 p. 20 Feature Writing (2) Dolan W 6:10-8 \$24 p. 20 Technical Writing (2) Gilstrap M 6:30-8:20 \$24 p. 20 Government Letter Writing (2) Boyd Th 6:10-8 \$24 p. 44 2-226.

2-235. 2 - 280.

2-450.

4-330.

Literature

2-330A. Great Books (First Half)—Reading List B (2) Ruppert Tu 6:10-8 \$24 p. 21

Information Methods

2-220. Indexing (2) Kozak Tu 6:10-8 \$24 p. 21

2-225. Principles of Editing and Their Application (3) George M 6:10-8:40 \$36 p. 21

2-114.

2-412.

2-415.

Maps and Charts (2) Bahn M 6:10-8 \$24 p. 22

Editing Technical Manuscripts (2) Reynolds M 6:10-8 \$24 p. 22

Producing the Popular Publication (2) Feldman Th 6:10-8 \$24 p. 22

Information Practice in Science and Technology (2) Sherrod Th 6:10-8 \$24

Using Visuals Effectively (2) Granahan (Coordinator) Th 6:10-8 \$24 p. 23 2-150.

2-243.

Library Techniques

2-125.

Introduction to Library Service (2) Mohrhardt M 6:10-8 \$24 p. 24
Introduction to Cataloging and Classification (2) \$24 p. 24
Section I Tate Tu 6:10-8
Section II Birch Th 6:10-8 2-135.

Basic Reference Service and Reference Tools (2) Fulcher Tu 6:10-8 \$24 p. 24 2-137.

2-138.

Introduction to Bibliographic Science (2) Popecki Th 7:10-9 \$24 p. 24
Information Practice in Science and Technology (2) Sherrod Th 6:10-8 \$24 p. 25
Seminar in Library Techniques (3) Sherrod To be arranged \$36 p. 25 2-150. 2-160.

Speech

2-228.

2-229.

2-232.

Foreign Languages

2-58A. Latin for English (First Half) (non-credit) Stefferud Tu 6:10-8:40 \$36 p. 26 2-200A. Mandarin Chinese (First Half) (4) Tsao M-Th 6:10-8 \$48 p. 26

French

2-253A. Elementary French (First Half) (3) Bargin F 6:30-9 \$36 p. 26
2-254A. Intermediate French (First Half) (3) Bargin Tu 6:30-9 \$36 p. 26
2-68. Reading French—Grammar Review and Vocabulary Building (non-credit) Vican W 6:10-8 \$24 p. 26

```
Course title (Cr.) Instructor Day Time Fee Cutning page
                                                                                                                                                                                                                                                                                                                                                                                           Course title (Cr.) Instructor Day Time Fee Cutalog page
  No
                          Basic Conversational Freach (non-credit) Burgin M 0:10-8 $30 p. 27
Advanced French Conversation and Composition (2) Vican Tu 0:10-8 $30 p. 27
Contemporary Freach Literature and Theorem 1001-credity Vican M 6:10-8' $24 p. 27
                                                                                                                                                                                                                                                                                                                                                                               Human Relations in Administration (3) Enneds W 6:10-8:40 $35 p. 58
Executive Sinffwork (3) Hurtt Th 6:10-8:40 $36 p. 58
Rendings in Public Administration (3) Thurston (Coordinator) To be arranged $36
                                                                                                                                                                                                                                                                                                                                                       6-453,
6-459,
  2-255
2-59.
  German
                        Elementary German (First Half) (3) Lederer Tu 6(10-8(40 $38 p. 27 Intermediate German (First Half) (3) Lederer M 6(10-8(40 $36 p. 27 Basic Conversational German (non-credit) von Luttichau Tu 6(10-8(40 $36 p. 27 Basic Conversional German II (non-credit) von Luttichau Th 6(10-8(40 $36 p. 27 Reading Scientific German (non-credit) Lederer W 6(10-8(40 $36 p. 28 Reading German (non-credit) Lederer Th 6(10-8(40 $36 p. 28 Johrany Through German Lands (non-credit) von Luttichau W 6(10-8(40 $36 p. 28
 2-259A,
2-260A,
2-88,
2-96.
                                                                                                                                                                                                                                                                                                                                                         6-250. American History to 1865 (3) Rasmussen W 6:10-8:40 $36 p. 59
                                                                                                                                                                                                                                                                                                                                                         Managament Analysis
                                                                                                                                                                                                                                                                                                                                                                              Principles and Techniques of Management (2) Finlator Th 0:10-8 $24 p. 59 Management of Directives Systems (2) Wylle W 6:10-8 $24 p. 60 Reports and Forms Management 12) Lewis and Rice Tu 0:10-8 $24 p. 60 Work Standards and Work Measurement (2) Schpeider W 6:10-8 $24 p. 60
  2-67.
2-97.
  Italian
                                                                                                                                                                                                                                                                                                                                                         Budgetaly and Financial Administration
  2-270A. Elementary Hulian (Flirst Half) (3) Bauer and Morville M 6:10-8:40 $36 μ. 28
                                                                                                                                                                                                                                                                                                                                                        1-112A, Fuleral Flacial Procedure (First Hulf) (2) Krueger Tu 6:18-8 $24 p. 43
1-116.9 Fuleral Budgetary Procedure: Furmulation and Presentation (2) Carlson Tu 6:10-8
$24 p. 43
  2-290A, Elementory Portuguese (First Half) (3) Ornstein W 6:10-8:40 $36 p. 28
                                                                                                                                                                                                                                                                                                                                                                              $24 p. 43
Federal Fluancial System (2) Tiller Tu 4:10-8 $24 p. 61
Hudgelary and Fluancial Administration (2) Grant Th 6:144-8 $24 p. 61
 2-295A. Elementary Russian (First Half) (3) $36 p. 20

Section I Scala M 6:10-8:40
Section II Scala Tu 4:45-7:15 (Meets at Plant Industry Station, Beltsville, Maryland)
2-295B. Elementary Russian (Second Half) (3) Scala W 6:10-8:40 $36 p. 29
2-296A. Intermediate Russian (First Half) (3) Fediny M 6:10-8:40 $36 p. 29
2-299A. Advanced Russian (First Half) (3) Scala Th 6:10-8:40 $36 p. 29
                                                                                                                                                                                                                                                                                                                                                                              Modera Supervisury Practice (2) Van Dersal M,6:10-8 $24 p. 42
Federal Persumuel Procedure (2) Starna Tu 0:10-8 $24 p. 43
Public Persumuel Administration (3) Terry M 6:10-8:40 $36 p. 62
Safety Pragram Administration (2) Pope M 6:10-8 $24 p. 62
Graup Lasurance t2) Zisman M 6:10-8 $24 p. 63
Postina Classification (2) Luxton and Findlay Tu 6:10-8 $24 p. 63
Salary and Wage Administration 12) Hand Th 6:10-8 $24 p. 63
Employment and Placement (2) Garnett M 6:10-8 $24 p. 63
Interviewing Workshop (2) Garnett Tu 6:10-8 $24 p. 63
Interviewing Training and Development (3) Stockard W 6:10-8:40 $36 p. 63
Human Relations in Administration (3) Enneis W 6:10-8:40 $36 p. 63
  2-300A. Elementary Spanish (First Half) (13) Juffe W 6:10-8:40 $36 p. 30 2-301A. Intermediate Spanish (First Half) (3) Ornstein M 6:10-8:40 $36 p. 30 2-83. Basic Cuarresutional Spanish 1 Inon-credit) Otern M 6:10-8 $30 p. 30 2-84. Basic Conversational Spanish II (non-credit) Otern Tu 6:10-8 $30 p. 30 2-90. Lafin American Literature (non-credit) O'Hagan W 6:10-8 $30 p. 30
                                                                                                                                                                                                                                                                                                                                                         Legal Administration
                                                                                       MATHEMATICS AND STATISTICS
                                                                                                                                                                                                                                                                                                                                                        6-320. Administrative Law and Procedure (2) Flavin M 6:10-8 $24 p. 64 6-422A. Business Law (First Hulf) (2) Perlman W 6:10-8 $24 p. 64 6-427. Aviatina Law (2) Cooper W 6:10-8 $24 p. 64
  Mathematics
                          Elementary Algebra (non-credit) Schrimper Ta 6:10-8 $24 p. 32
Review of College Freshman Mathematics (First Hulf) (non-credit) Huddleston Tu
 3-1.4. Review in College Freshman Mathematics (First Hull) (non-credit) Huddleston Tu 6:10-8 $21 p. 33
3-102. College Algebra (4) McCurley M-W 5:10-8 $48 p. 33
3-103. Trigonometry and Analytic Geometry (4) Steam M-F 6:10-8 $48 p. 33
(Students may register for either half. Those registering for the second half only should consult the Graduate School office for the opening date, just before the end of the first eight weeks.)
3-205A. Calculus (First Half) (4) Mitchell Tu-Th 6:10-8 $48 p. 33
3-206B. Calculus (Second Half) (4) Mitchell M-W 6:10-8 $48 p. 33
3-310A. Introduction to Probability Theory (First Half) (3) Chassan To 0:10-8:40 $30 p. 34
3-115A. Higher Algebra (First Half) (3) Instructor to be announced Th 6:10-8:40 $36 p. 34
                                                                                                                                                                                                                                                                                                                                                        4-115. Follered Purchasing Procedure (2) Baldauf and Gunther M 6(10-8 $24 p. 43 6-370. Government Construction Contracts (2) Blusky, Gantt, and Keiser Th 6(10-8 $24
                                                                                                                                                                                                                                                                                                                                                        6-618. Givernment Defense Contracts (2) Silverstein W 6:10-8 $24 p. 65 6-565. Inventory Management (2) Eagle and Prichard Th 6:10-8 $24 p. 66 8-405. Principles of Specifications (2) Rosenzweig Tu 6:10-8 $24 p. 80
                                                                                                                                                                                                                                                                                                                                                         Accounting
                                                                                                                                                                                                                                                                                                                                                        6-342. Accounting for Non-accountants (2) Willing W 6:10-8 $24 p. 67 6-352A. Principles of Accounting (First Half) 13) Levenberg and Marshall M 6:10-9:45
 3-502A. Differential Equations (First Half) (2) Malkin M 6:10-8 $24 p. 34
3-508. Theory of Georges (3) Stearn W 6:10-8:40 $36 p. 34
3-509A. Mathematics for Economists (First Half) (3) Rojko W 6:10-8:40 $36 p. 34
3-502. Introduction to Linear Programming (3) Bluss M 6:10-8:40 $36 p. 35
3-533. Introduction to Operations Research (3) Bafner M 6:10-8:40 $36 p. 35
                                                                                                                                                                                                                                                                                                                                                        535 p. 67
6-352B. Principles of Accounting (Second Half) 13) Carter Tu 6:10-9:45 $36 p. 67
6-353A. Intermediate Accounting (First Half) (3) Hord M 6:10-9:45 $36 p. 68
6-251A. Federal Envernment Accounting (First Half) 12) Jenkins M 6:10-8 $24 p. 68
6-420A. Advanced Accounting—Theory and Problems (First Half) (3) Acker Ta 6:10-8:40
                                                                                                                                                                                                                                                                                                                                                        $36 p. 68
6-525. Federal Financial System (2) Tiller Tu 6:10-8 $24 p. 61
6-645. Federal Income Taxes (3) Moyer W 6:10-8:40 $36 p. 69
6-693A. Amiling (First Half) (2) Cooper W 6:10-8 $24 g. 69
  Statistics
                         Preparatury Mathematics for Introductory Statistics (non-credit) Saler M 4:10-8
  3.6.
 3-126A, Introductory Statistics (First Half) (2) West Tu 6:10-8 $24 \ \mu$, 36 
2-126B, Introductory Statistics (Second Half) (2) Ranchachivalbe Th 6:10-8 $24 \ \mu$, 36 
3-135. Elements of Statistical Drafting (2) Guidry Th 6:10-8 $24 \ \mu$, 36 
3-318. Machine Tahulatian I (2) Kaufman M 6:30-8:20 $24 \ \mu$, 36 
3-320. Introduction to Acceptance Sampling (12) Houseman and Burtlett Tu 6:10-8 $24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOCIAL SCIENCES
                                                                                                                                                                                                                                                                                                                                                         General Economics
                                                                                                                                                                                                                                                                                                                                                        7-201A. Principles of Economics (First Hulf) 13) Stocker W 6:10-8:40 $36 0, 70 3-509A. Mathematics for Economists (First Hulf) 13) Rojko W 6:10-8:40 $36 0, 34 T-518A. Economic Analysis (First Hulf) (3) Vogely Th 6:10-8:40 $35 p. 7t 7-570A. Statistical Analysis Applied to Economic Problems (First Hulf) 12) Gerra Tu 6:10-8
 p. 37
3-380A, Principles of Statistical Analysis (First Half) (3) Stamber To-Th 6-7:15 $36 p. 37
3-385A, Elements of Statistical Methods (First Half) (2) Domon W 4:45-6:35 $24 p. 37
(Megis of Agricultural Research Center, Beltsville, Maryland)
3-405. Statistics in Experimental Research (3) Huddleston Th 6:10-8:40 $36 p. 37
3-450. Introduction to Population Statistics (3) Siegel Tu 6:30-9 $36 p. 38
3-559A, Electronic Data Processing—General (First Half) (3) Schwartz M 6:10-8:40 $36
                                                                                                                                                                                                                                                                                                                                                                                Economic Indicators, Meaning and Use (2) Grove W 6(10-8 $24 p. 71 Comparative Reonomic Systems (2) Singleton Tu 6:10-8 $2-4 p. 72 Economics of Transportation (3) Snitzler Th 6:10-8:40 $36 p. 72 How and Why of Stock Investments (non-credit) Gelman W 6:10-8 $24 p. 72
                                                                                                                                                                                                                                                                                                                                                         7-468.
  3.565B. Data Pricessing on Electronic Cumputers-HNIVAC II (Second Half) (2) Shilnikus
                                                                                                                                                                                                                                                                                                                                                                                Rural Community (2) Pope M 6:10-8 $24 p. 76
Introduction to Marketing (2) White Th 6:10-8 $24 p. 73
Economics of Market Expansion (2) Walshand Associates M 6:10-8 $24 p. 78
Agricultural Prices (2) Breimyer Tu 6:10-8 $24 p. 74
                         Th 6:10-8 $24 p. 38
Programming Solid State Systems—IISS 80 and 40 13) Shimkus Tu 6:10-8:40 $36
3-564A, Scientific and Business Data Processing on Electronic Computers—UNIVAC 1103A and 1105 (First Half) 13) Covington M 6:10-8:40 $36 p. 38
3-567A, Data Processing on Medium-Sized Electronic Computers—IBM 65B (First Half) 12)
Zeller W 6:10-8 $24 p. 39
                                                                                                                                                                                                                                                                                                                                                         Caoperative Extension Education

    7-535. Methods of Evaluating Educational Programs (3) Staff, Extension Research and Training Division, Federal Extension Service To be arranged $5 p. 75
    7-596. Development of Extension Programs (3) Staff, Extension Research and Training Division, Federal Extension Service To be arranged $5 p. 75

 Zeller W 6:10-8 $24 p. 39
3-567B. Data Processing on Medium-Sized Electronic Computers—IBM 650 (Second Half) 42)
3-567B. Data Processing on Medium-Sized Electronic Computers—IBM 550 (Second Ball) (2)
3-580A. Data Processing on Medium-Sized Advanced Electronic Computers—IBM 7070 (First Half) (3) Mann M 6:10-8:40 $36 p. 39
3-585A. Data Processing on Electronic Computers—IBM 1401-1110 (First Half) (3) Lloyd W 6:10-8:41 $36 p. 39
3-760A. Programming Techniques for General Purpose Electronic Digital Computer—Scientific Applications (First Half) (3) Chessin Tu 0:10-8:40 $36 p. 39
3-770. Design of Systems for Computer Applications (3) Alexander and Chaer Th 6:10-8:40
                                                                                                                                                                                                                                                                                                                                                                               General Psychology (3) Fltznatrick Tu 6:10-8:40 $36 and $1 laboratory fee p. 76
Rural Community (2) Pope M 6:10-8 $24 p. 76
General Semantics (2) Eldridge W 7:10-9 $24 p. 77
Clinnging American Family (2) Hodges M 6:10-8 $24 p. 77
Improving Human Relations and Group Behavior (2) Bnuer M 6:10-8 $24 p. 77
Russia: Yesterday, Todny, and Tomorrow (2) Czujkowski Th 6:10-8 $24 p. 78
Readings and Papers in Human Relations (3) Fitzantrick (Coordinator) To be arranged $36 p. 78
 1-170A, Design of Experiments in Hological Sciences (First Half) (2) Kuch W 4:45-6:35-6
824 p. 14 (Meets at Plant Industry Station, Beltsville, Maryland)
3:735A. Theory of Sample Surveys (First Half) (2) Steinberg W 6:10-8 824 p. 10
3-736. Non-sampling Errors in Statistical Surveys (2) Prinzker Tu 6:10-8 824 p. 40
3-025. Federal Statistical Services—Seminar Inon-credity Ryan September 27, October 11, October 25, and November 8 | Registration is required, but no fees are charged.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TECHNOLOGY

Review of Engineering Fundamentals for P. E. Examination (non-credit) Rixse W 6:10-8 $24 p. 79
8-95. Electrical Engineering Review for P. E. Examination (non-credit) Jessel, Thomas, and Therney W 6:10-8 $24 p. 80
8-105. Principles of Specifications (2) Resenting Tu 6:10-8 $24 p. 80
8-115 A. Fundamentals of Radio and Television - (First Half) (3) Hauptman Tu 6:10-8:40

                                                                                                                                                                                                                                                                                                                                                         Engineering
                                                                            OFFICE TECHNIQUES AND OPERATIONS
 Administrative Procedures

1-88. Gregg Notchand Inon-credity Bansterland M 6(10-8)40 $36 0. 42

4-101. Everyday Mathematics 12) Botts W 6(10-8) $24 p. 42

3-8. Elementary Algebra Inon-credity Schrimper Tu fi(10-8) $24 p. 32

4-108. Administrative Procedure 12) Hickey M 6(10-8) $24 p. 42

1-201. Modern Supervisory Practice (2) Via Dersal M 6(10-8) $24 p. 42

1-206. Essentials of Band Office Management (3) Wugner W 6(10-8) 40 $36 p. 42

1-112A. Federal Piscal Procedure (2) Stories Tu 6(10-8) $24 p. 43

1-114. Federal Personnel Procedure (2) Buldnut and Gunther M 6(10-8) $24 p. 43

1-115. Federal Purchasing Procedure (2) Buldnut and Gunther M 6(10-8) $24 p. 43

1-116. Federal Budgetary Procedure: Furmulation and Presentation (12) Carlson Tu 6(10-8)

$24 p. 43
                                                                                                                                                                                                                                                                                                                                                       $36 p. 80

8-167A. Applied Electronics Theory (First Half) (3) Cullimate M 0:10-8:40 $36 p. 80

8-525. Transistor Electronics (3) Rubenstein W 0:10-8:40 $36 p. 80

8-525. Nurlear Roucturs (2) Schulman M 0:10-8 $24 p. 80

8-582. Elements of Digital Data Processing (2) Mileson M 0:10-8 $24 p. 81

8-595A. Engineering Reliability (First Half) (2) Price W 0:10-8 $24 p. 81

8-697. Lacatum and Design of Rucal Highways (3) Green Th 6:10-8:40 $36 p. 81
                                                                                                                                                                                                                                                                                                                                                         Surveying and Mapping
                                                                                                                                                                                                                                                                                                                                                         8-132. Introduction in Geodesy 12) Instructor to be announced. To be arranged $24 p. 84. 8-218. Goodetic Surveying (3) Ellingwood M 6-8 and 4 Saturdays. $36 and $2 laboratory
                         Recards Management Procedure 12) Lattrell and Lando To 6:10-8 $24 p. 44 Reports and Forms Management (2) Lewis and Rice To 6:10-8 $24 p. 60
                       Government Letter Writing (2) Boyil Th 6:10-8 $24 p. 44
  1-330.
                                                                                                                                                                                                                                                                                                                                                        8-120. Introduction to Photogrammetry (2) Southard Tu 6:10-8 $24 p. 86
8:218. Acrial Photographic Interpretation (3) Churchill Tu 6:10-8:40 $36 p. 86
8-251. Photogrammetry 1 (3) Gitenson W 6:10-9:30 $36 p. 86
8-480. Photogrammetry III (3) Cook and Tewinkel Th 6:10-8:40 $36 p. 86
3-598. Theory of Errors (3) Steam W 6:10-8:40 $36 p. 34
                                                                                                                                                                                                                                                                                                                                                          Photogrammetry
                       Review of Gregg Shorthand (Anniversory), 60-80 Words (Inon-credit) Butler M-Th 6:10-7:30 $36 p. 45
  1.89.
                       1-129.
                                                                                                                                                                                                                                                                                                                                                         8.222\,\Delta . Mathematics for Cartographers (First Hulf) (2) Everett Tu 6:10-8 $24 p. 87 8-12 (. Large Scale Maps (12) Skop M 6:10-8 $24 p. 87
                                                                                                             PHYSICAL SCIENCES
                                                                                                                                                                                                                                                                                                                                                          Fine Aits
                                                                                                                                                                                                                                                                                                                                                         8-320. Pencil Sketching and Water Culor Printing (2) Cupoli M 6:10-9 $30 and $5 labora-
 General
  5-225A. Principles of Physical Science (First Haif) (2) PhRansch W 6:10-8 $24 p. 47
5-175. Descriptive Astronomy (2) Klock W 7:30-9:20 $24 p. 47 (Meets at U. S. Naval
                                                                                                                                                                                                                                                                                                                                                                                  tory for a. 87
Life Sketching (2) McKenna 'Th 6;10-ft $30 and $5 laboratory for p. 88
Hlack and White Drawing for Reproduction (2) Taylor To 6:10-9 $30 and $5 labora-
 5-175. Descriptive Astronomy Observatory)
Observatory)
5-138. Space Science and Technology (2) Worf M 6:10-8 $24 p. 47
5-138. Practical Electronics for Biologists and Chemists (First Hulf) (2) $24 p. 47
Section I Norris Tu 4:45-6:35 (Meets at Plant Industry Station, Beltaville, Maryland)
                                                                                                                                                                                                                                                                                                                                                                                 Tary fere μ. 88
Furtrait Painting in Oil (2) Lazzari W 6:10-9 $30 and $5 laboratory fee μ. 88
Creative Painting (2) Abramowitz Th 4:40-7:30 $30 and $5 laboratory fee μ. 88
i Meets at Agricultural Research Center, Beksville, Maryland)
Surrey at Art (2) Gillilland Tri 6:10-8 $24 μ. 88
Nude in Scalphare and Painting (2) Henderson Al 6:16-8 $24 μ. 88
Introduction to Theater (2) Blocks Th 6:10-8 $24 μ. 89
  Chemistry and Physics
5-101A. General Chemistry (First Half) (3) Jaquith M 4:45-7:15 $36 g. 48 (Meets at Plant Industry Station, Beltsville, Maryland)
5-218A. Organic Chemistry (First Half) (3) Alexander M 4:45-7:15 $36 p. 48 (Meets at Agricultural Research Center, Beltsville, Maryland)
5-315A. Elementary Biochemistry (First Half) (2) Sheppard W 6:40-8 $24 p. 48
5-349A. Physical Chemistry (First Half) (2) Horivitz M 6:10-8 $24 p. 48
5-413. Biophysical Instrumentation (2) Instructor to be uninounced Ta 4:45-6:35 $24 p. 48
(Meets at Plant Industry Statlan, Beltsville, Maryland)
5-131A. Principles of Plasma Physics (First Half) (3) Harrison M 6:10-8:40 $36 p. 48
                                                                                                                                                                                                                                                                                                                                                           Applied Aits
                                                                                                                                                                                                                                                                                                                                                                                 Introduction in Institutional Housekeeging (non-credit) Morgan and Associates
                                                                                                                                                                                                                                                                                                                                                          8:35.
                                                                                                                                                                                                                                                                                                                                                          Th 6:10-8 $24 p. 89
8-55. Introduction to Interior Decoration (non-credit) Steininger Th 6:40-8:30 $24 p. 89
8-144A. Graphic Arts in the Federal Government (First Hulf) (2) Eysenberg and Jex W 6:10-8 $24 p. 89
8-284. Lamiscope Hesign of Small Property (2) Schultheis W 7:10-9 $24 p. 80
                                                                                                                                                                                                                                                                                                                                                        8-70. Pupilar Photography (non-credit) McCiflough W 6:10-8 $24 p. 90
8-70. Pupilar Photography (non-credit) McCiflough W 6:10-8 $24 p. 90
8-70. Pupilar Photography I (2) Cobb W 6:10-8 $24 p. 90
8-70. Practice of Photography I (3) Burnett M 6:10-8:40 $36 and $5 inborntory fee p. 90
8-70. Pupilar Photography Through Composition I (2) Miller M 6:10-8 $24 and $2
8-70. Pupilar Photography (Pirst Hulf) (2) Purdy Th 6:10-8 $24 and $4 inhoratory fee p. 91
                                                                                                                                                                                                                                                                                                                                                          Photography and Lithagraphy
  Geography and Geology
 2-(14. Maps and Charls (2) Bahn M 6:10-8 $24 p. 22
5-203. General Geology (3) Douglass Tu 6:10-8:40 $36 p. 49
8-208. Acrial Photographic Interpretation (3) Churchill Tu 6:10-8:40 $36 p. 85
5-533A. Hydrology (First Half) (3) Nordenson Tu 6:10-8:40 $36 p. 40
  Metaorology
                                                                                                                                                                                                                                                                                                                                                         p. 91
8-270A. Color Photography I, Monupack Color Printing (First Hulf) (3) Rodbell Tu 6:1tt-8:40 $35 and $12 inborntory fee p. 91
8-333. Surrey of Art (2) Cililland Tu 6:10-8 $24 p. 88
8-161A. Hosic Science for Lithographers (First Hulf) (3) Novak and Rezulkoff M 6:10-8:40
  5:330. Agricultural Meteurulugy (3) Springer Tu 6:10-8:40 $36 p. 61 5-415. Applied Climatology (3) Thom M 6:10-8:40 $36 p. fil 5-631A. Introduction to Dynamic Meteorology (First Half) (3) Malkin Th 0:10-8:40 $36
 p, 51
5-580A. Advanced Weather Analysis and Furecasting (First Half) (3) Winston and Dunn W 6:10-8:40 $36 and $4 laboratory fee p. 52
5-589. Trupical Meleurology (3) Hubert Tu 6:10-8:40 $35 p. 62
                                                                                                                                                                                                                                                                                                                                                                                 $36 µ, 91
Photocomposing I—Principles (3) Martin W 6:10-8:40 $36 p. 92
Photocomposing II—Practice (3) Wray F 6:10-8:40 $36 and $24 inboratory fee
                                                                                                                                                                                                                                                                                                                                                          8-179A, Survey of Lithography (First Half) (3) Lefebvre Th 5:10-8:40 $36 0.92 8-171A. Offset Stripping and Negative Work (First Half) (3) Hamin M 5:10-8:40 $36 and 5:10 laboratory fee p. 92 8-172A, Hasic Pressuark (First Half) (3) Ritchie Th 5:16-8:40 $36 and $10 laboratory fee
  Occomography
 5-360. General Oceanography (2) Elder Tu 6:10-8 $24 \( \mu, 53 \)
5-476. Applied Underwater Samult (2) Schulkin M 4:30-6:20 $24 \( \mu, 53 \)
5-662. Murine Meteorology (2) Burkkart W 4:30-6:20 $24 \( \mu, 53 \)
5-661. Oyanmic Oceanography (2) Schule Th 4:30-6:20 $24 \( \mu, 53 \)
                                                                                                                                                                                                                                                                                                                                                         8-180A. Advanced Pressiverk (First Half) (3) Instructor to be innounced. To 6:10-8:40 $30 and $16 laboratory fee p. 92 8-174A. Offset Plantagraphy (First Half) (3) Rankin M 6:10-8:40 $36 and $10 laboratory
                                                                                                    PUBLIC ADMINISTRATION
  General Administration
```

for p. 93 8-175 A. Lilbographic Estimating (First Half) (2) Clark W 6:10-8 \$24 p. 93 8-185 A. Calor Separation and Masking (First Half) (3) Mohr Th 6:10-8:40 \$36 and \$15 Inhorntory fee p. 93

American Nathural Government (2) Nerhom Th 0:10-8 \$24 p. 57 Montern Supervisory Fractice (2) Van Dersol M 5:10-8 \$24 p. 42 Introduction to Public Administration (2) Helm Tu 6:10-8 \$24 y. 57 Principles and Practices of Management (2) Wilson Th 0:10-8 \$24 y. 58

4.201.



1961 FALL SCHEDULE OF CLASSES

